

King Fahd University of Petroleum and Minerals
Department of Math & Stat
Math 101.05 Quiz I Summer 2007 (063)

ID #: _____ NAME: _____

Serial # _____ Section #: _____

1. Find equations of both lines through $(2, -3)$ that are tangent to the parabola $y = x^2 + x$.

2. Find $\lim \frac{\sin \theta}{\theta + \tan \theta}$.

King Fahd University of Petroleum and Minerals
Department of Math & Stat
Math 101.05 Quiz II Summer 2007 (063)

ID #: _____ NAME: _____

Serial # _____ Section #: _____

1. Let $r(x) = f(g(h(x)))$, where $h(1) = 2$, $g(2) = 3$, $h'(1) = 4$, $g'(2) = 5$ and $f'(3) = 6$. Find $r'(1)$.

2. Find an equation of the tangent line to the hyperbola $x^2 + 2xy - y^2 + x = 2$ at the point $(1, 2)$.